CLAIM AMENDMENTS

- 1. (currently amended) A composition comprising the product prepared by heating together:
 - (a) a succinimide dispersant and
- (b) 2,5-dimercapto-1,3,4-thiadiazole or a hydrocarbyl-substituted 2,5-dimercapto-1,3,4-thiadiazole which is substantially insoluble in a hydrocarbon oil of lubricating viscosity at 25°C, and further either
- (c) a borating agent selected from the group consisting of boric acid, boron trioxide, and alkyl borates of the formula $(RO)_xB(OH)_y$ wherein x is 1 to 3 and y is 3-x, and where R is an alkyl group containing 1 to 6 carbon atoms, [[or]] and optionally
- (d) an inorganic phosphorus <u>acid or anhydride</u> compound, or both (c) and (d), said heating being sufficient to provide a reaction product of (a), (b), [[and]] (c) [[or]] <u>and optionally</u> (d) which is soluble in said hydrocarbon oil at 25°C.
 - 2. (cancelled)
 - 3. (cancelled)
 - 4. (cancelled)
 - 5. (cancelled)
- 6. (original) The composition of claim 1 wherein component (b) is 2,5-dimercapto-1,3,4-thiadizole.
- 7. (previously presented) The composition of claim 1 wherein component (b) is a hydrocarbyl-substituted 2,5-dimercapto-1,3,4-thiadiazole wherein the hydrocarbyl group or groups contain a total of less than about 8 carbon atoms.
- 8. (original) The composition of claim 1 wherein the borating agent is an inorganic borating agent.
 - 9. (cancelled)
- 10. (currently amended) The composition of claim 1 wherein the inorganic phosphorus <u>acid or anhydride</u> compound is phosphoric acid, phosphorous acid or an anhydride thereof.
- 11. (currently amended) The composition of claim 1 wherein both the borating agent and the inorganic phosphorus <u>acid or anhydride compound</u> have been heated with the dispersant and the 2,5-dimercapto-1,3,4-thiadiazole or hydrocarbyl-substituted 2,5-dimercapto-1,3,4-thiadiazole.
- 12. (currently amended) The composition of claim 1 wherein components (a), (b), and either (c) [[or]] and optionally (d) or both (c) and (d) have been heated together at about 80 to about 200°C for at least about 0.5 hours.

- 13. (currently amended) The composition of claim 1 wherein components (a), (b), and either (c) [[or]] and optionally (d) or both (c) and (d) have reacted as evidenced by the evolution of H_2S or H_2O .
- 14. (currently amended) The composition of claim 1 wherein components (a), (b), and either (c) [[or]] and optionally (d) or both (e) and (d) are heated together in a hydrophobic medium.
- 15. (original) The composition of claim 14 wherein the hydrophobic medium is an oil of lubricating viscosity.
- 16. (previously presented) The composition of claim 15 wherein the oil of lubricating viscosity is retained in the composition.
- 17. (currently amended) The composition of claim 1 wherein the relative amounts, by weight, of components (a), (b), (c), and (d), prior to heating, are about 100 of (a): (0.75 to 6 of (b)): ([[0]] <u>0.075</u> to 7.5 of (c)): (0 to 7.5 of (d)), provided that the relative amount of (c) + (d) combined is at least about 0.075.
- 18. (currently amended) The composition of claim 1 wherein the relative amounts, by weight, of components (a), (b), (c), and (d), prior to heating, are about 100 of (a): (1.5 to 3 of (b)): ([[0]] 1.5 to 4.5 of (c)): (0 to 4.5 of (d)), provided that the relative amount of (c) + (d) combined is at least about 1.5.
- 19. (currently amended) The composition of claim 1 wherein the reaction product comprises about 0.5 to about 2.5 percent by weight S derived from component (b) and either about 0.2 to about 0.6 percent by weight B from component (c), or about 0.3 to about 1.1 percent by weight P from component (d), or said amounts from both components (c) and (d), on an oil free basis.
- 20. (original) A composition comprising an oil of lubricating viscosity and the reaction product of claim 1.
- 21. (original) The composition of claim 20 wherein the amount of the reaction product is about 0.5 to about 90 percent by weight of the composition.
- 22. (previously presented) The composition of claim 21 wherein the amount of the reaction product is about 0.5 to about 5 percent by weight.
- 23. (previously presented) The composition of claim 21 wherein the amount of the reaction product is about 20 to about 90 percent by weight.
- 24. (original) A method for lubricating a mechanical device, comprising supplying thereto the composition of claim 20.
- 25. (original) The method of claim 24 wherein the mechanical device is an internal combustion engine.
- 26. (original) The method of claim 24 wherein the mechanical device is an automatic transmission.

10/645,373, Tipton (3202R)-- page 4

- 27. (currently amended) A method for preparing a composition comprising heating together a mixture of:
 - (a) a succinimide dispersant and
- (b) 2,5-dimercapto-1,3,4-thiadiazole or a hydrocarbyl-substituted 2,5-dimercapto-1,3,4-thiadiazole which is substantially insoluble in a hydrocarbon oil of lubricating viscosity at 25°C, and further either
- (c) a borating agent selected from the group consisting of boric acid, boron trioxide, and alkyl borates of the formula $(RO)_xB(OH)_y$ wherein x is 1 to 3 and y is 3-x, and where R is an alkyl group containing 1 to 6 carbon atoms [[or]] and optionally
- (d) an inorganic phosphorus <u>acid or anhydride</u> compound, or both (c) and (d), said heating being sufficient to provide a reaction product of (a), (b), [[and]] (c) [[or]] <u>and optionally</u> (d) which is soluble in said hydrocarbon oil at 25°C.
 - 28. (new) A composition comprising the product prepared by heating together:
 - (a) a succinimide dispersant and
- (b) 2,5-dimercapto-1,3,4-thiadiazole or a hydrocarbyl-substituted 2,5-dimercapto-1,3,4-thiadiazole which is substantially insoluble in a hydrocarbon oil of lubricating viscosity at 25°C, and
 - (c) boric acid, and optionally
- (d) an inorganic phosphorus acid or anhydride, said heating being sufficient to provide a reaction product of (a), (b), (c) and optionally (d) which is soluble in said hydrocarbon oil at 25°C.
- 29. (new). The composition of claim 28 wherein a mixture of components (a), (b), and (c), and optionally (d) is heated together.